SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT 21865 Copley Dr., Diamond Bar, CA 91765-4182

MONITORING & ANALYSIS REPORT OF LABORATORY ANALYSIS

| TO: | Jason Low, Ph.D. | LABORATORY NO: | 1615733 |
|-----|--|----------------|---------------|
| | Atmospheric Measurements Manager Science and Technology Advancement | REFERENCE NO: | GC6-121-98 |
| SAM | PLE DESCRIPTION: | DATE SAMPLED: | 06/05/16 |
| | 24 hr Sample Canister # 54597 | DATE RECEIVED: | 06/06/16 |
| | | DATE ANALYZED: | 06/07/16 |
| SAM | PLE LOCATION: | ANALYZED DV | |
| | Reseda Station 18328 Gault St. | ANALYZED BY: | Yang Song |
| | Los Angeles, CA 91335 | REQUESTED BY: | Sumner Wilson |
| | | | |

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Volatile Organic Compounds (VOC) by Gas Chromatography(GC) and Flame Ionization Detection (FID)

Note: See attached for speciated results.

Date Approved: 6/8/16 Approved By:

Solomon Teffera, Acting Sr. Manager

Laboratory Services Branch

(909) 396-2199

<u>LAB NO: 1615733</u> <u>Location: Reseda Station</u>

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Quantitation of Organic Compounds by Gas Chromatography(GC) and Flame Ionization Detection (FID)

| Canister 54597 Sampling Location Reseda Station Ambient Air Total NMOC, ppbC 96 100-700 ppbC Compound Cone. (ppbv) Cone. (ppbv) ethylene 1.5 0.7-4.1 acetylene 1.0 0.7-4.1 propane 2.4 0.4-5.0 propylene 0.4 0.2-0.7 isobutane 0.5 0.2-0.9 isobutane 0.7 0.3-1.7 1-butene <0.1 | Sample Date | 06/05/16 | |
|---|--|----------------|--------------|
| Total NMOC, ppbC 96 100-700 ppbC Compound ethylene Conc. (ppbv) Conc. (ppbv) ethylene 1.5 0.7-4.1 acetylene 1.0 0.7-4.1 propane 2.4 0.4-5.0 propylene 0.4 0.2-0.7 isobutane 0.5 0.2-0.9 n-butane 0.7 0.3-1.7 1-butene <0.1 | Canister | 54597 | |
| Compound Conc. (ppbv) Conc. (ppbv) ethylene 1.5 0.7-4.1 acetylene 1.0 0.7-4.1 propane 2.4 0.4-5.0 propylene 0.4 0.2-0.7 isobutane 0.5 0.2-0.9 n-butane 0.7 0.3-1.7 1-butene <0.1 0.1-0.3 trans-2-butene <0.1 0.1-0.3 tras-2-butene <0.1 0.1-0.3 isopentane 2.6 0.1 1-pentene <0.1 0.1-0.6 isopentane 0.2 0.1-0.6 isoprene <0.1 0.1-0.6 trans-2-pentene <0.1 0.1 cis-2-pentene <0.1 0.1 cis-2-pentene <0.1 0.1 cis-2-pentene <0.1 0.1 cy-2-dimethylbutane <0.1 0.1 cy-3-dimethylpentane <0.1 <0.1-0.1 3-methylpentane <0.1 <0.1-0.2 cyclohexane <0.1 | Sampling Location | Reseda Station | Ambient Air |
| ethylene | Total NMOC, ppbC | 96 | 100-700 ppbC |
| acetylene propane 2.4 0.4-5.0 propylene 2.4 0.4-5.0 propylene 0.4 0.2-0.7 isobutane 0.5 0.2-0.9 n-butane 0.7 0.3-1.7 0.3-1.7 1-butene 0.1 0.1-0.3 trans-2-butene 0.1 isopentane 0.2 0.1 isopentane 0.4 0.1 isopentane 0.4 0.1 n-pentane 0.4 0.1 n-pentane 0.2 isoprene 0.2 trans-2-pentene 0.2 trans-2-pentene 0.1 0.1-0.6 isoprene 0.2 trans-2-pentene 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 | A STATE OF THE STA | | |
| propane 2.4 0.4-5.0 propylene 0.4 0.2-0.7 isobutane 0.5 0.2-0.9 n-butane 0.7 0.3-1.7 1-butene <0.1 | | | 0.7-4.1 |
| propylene | acetylene | | |
| isobutane 0.5 0.2-0.9 n-butane 0.7 0.3-1.7 1-butene <0.1 | | | 0.4-5.0 |
| n-butane 0.7 0.3-1.7 1-butene <0.1 0.1-0.3 trans-2-butene <0.1 cis-2-butene <0.1 isopentane 2.6 1-pentene <0.1 n-pentane 0.2 trans-2-pentene <0.1 cis-2-pentene <0.1 cis-2-pentene <0.1 cis-2-pentene <0.1 cis-2-pentene <0.1 2,2-dimethylbutane <0.1 2,3-dimethylbutane <0.1 2-methylpentane 0.1 1-hexene <0.1 1-hexene <0.1 1-hexene <0.1 1-hexane 0.1 0.1-0.2 methylcyclopentane <0.1 2,4-dimethylpentane <0.1 2,3-dimethylpentane <0.1 | | | 0.2-0.7 |
| 1-butene | | | 0.2-0.9 |
| trans-2-butene | n-butane | 0.7 | 0.3-1.7 |
| cis-2-butene <0.1 | | <0.1 | 0.1-0.3 |
| isopentane 2.6 1-pentene <0.1 | trans-2-butene | <0.1 | |
| 1-pentene <0.1 | cis-2-butene | <0.1 | |
| n-pentane 0.4 0.1-0.6 isoprene 0.2 trans-2-pentene <0.1 | isopentane | 2.6 | |
| isoprene trans-2-pentene < 0.1 | 1-pentene | <0.1 | |
| trans-2-pentene | n-pentane | 0.4 | 0.1-0.6 |
| cis-2-pentene <0.1 | isoprene | 0.2 | |
| 2,2-dimethylbutane <0.1 | trans-2-pentene | <0.1 | |
| cyclopentane <0.1 | cis-2-pentene | <0.1 | |
| 2,3-dimethylbutane <0.1 | 2,2-dimethylbutane | < 0.1 | |
| 2-methylpentane 0.2 3-methylpentane 0.1 1-hexene <0.1 | cyclopentane | <0.1 | |
| 3-methylpentane 0.1 1-hexene <0.1 | 2,3-dimethylbutane | <0.1 | |
| 1-hexene <0.1 | 2-methylpentane | 0.2 | |
| n-hexane 0.1 0.1-0.2 methylcyclopentane 0.1 0.1 2,4-dimethylpentane <0.1 | 3-methylpentane | 0.1 | |
| methylcyclopentane 0.1 2,4-dimethylpentane <0.1 | 1-hexene | <0.1 | < 0.1-0.1 |
| 2,4-dimethylpentane <0.1 | n-hexane | 0.1 | 0.1-0.2 |
| benzene 0.2 0.1-0.5 cyclohexane <0.1 | methylcyclopentane | 0.1 | |
| benzene 0.2 0.1-0.5 cyclohexane <0.1 | 2,4-dimethylpentane | <0.1 | |
| 2-methylhexane <0.1 | | 0.2 | 0.1-0.5 |
| 2,3-dimethylpentane 0.1 3-methylhexane <0.1 | cyclohexane | <0.1 | |
| 3-methylhexane <0.1 2,2,4-trimethylpentane 0.2 n-heptane <0.1 0.1-0.2 | 2-methylhexane | <0.1 | |
| 3-methylhexane <0.1 2,2,4-trimethylpentane 0.2 n-heptane <0.1 0.1-0.2 | 2,3-dimethylpentane | 0.1 | |
| n-heptane <0.1 0.1-0.2 | | <0.1 | |
| | 2,2,4-trimethylpentane | 0.2 | |
| methylcyclohexane <0.1 | n-heptane | <0.1 | 0.1-0.2 |
| | methylcyclohexane | < 0.1 | |

LAB NO: 1615733 Location: Reseda Station

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Quantitation of Organic Compounds by Gas Chromatography(GC) and Flame Ionization Detection (FID)

| Sample Date | 06/05/16 | |
|------------------------|----------------|--------------|
| Canister | 54597 | |
| Sampling Location | Reseda Station | Ambient Air |
| Total NMOC, ppbC | 96 | 100-700 ppbC |
| Compound | Conc. (ppbv) | Conc. (ppbv) |
| 2,3,4-trimethylpentane | < 0.1 | |
| toluene | 0.5 | 0.1-0.6 |
| 2-methylheptane | < 0.1 | |
| 3-methylheptane | < 0.1 | |
| n-octane | < 0.1 | <0.1-0.3 |
| ethylbenzene | <0.1 | 0.1-0.2 |
| m+p-xylenes | 0.2 | 0.1-0.2 |
| styrene | < 0.1 | <0.1-0.2 |
| o-xylene | < 0.1 | 0.1-0.2 |
| n-nonane | < 0.1 | < 0.1-0.1 |
| isopropylbenzene | < 0.1 | |
| n-propylbenzene | < 0.1 | |
| m-ethyltoluene | < 0.1 | |
| p-ethyltoluene | < 0.1 | |
| 1,3,5-trimethylbenzene | <0.1 | |
| o-ethyltoluene | < 0.1 | |
| 1,2,4-trimethylbenzene | < 0.1 | |
| n-decane | < 0.1 | <0.1-0.1 |
| 1,2,3-trimethylbenzene | < 0.1 | |
| m-diethylbenzene | < 0.1 | |
| p-diethylbenzene | <0.1 | |
| n-undecane | < 0.1 | < 0.1 |
| n-dodecane | < 0.1 | < 0.1 |

NMOC = Non-Methane Organic Compounds N.D. = Not Detected

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SAMPLE ANALYSIS REQUEST

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WO #: 1615733

| ource Address: 12801 | Tampa Ave | | City: | Porter Ran | ch |
|---------------------------------------|----------------------------|------------|------------------|----------------|--------------|
| randu o a a | | | City: | | |
| | | | | | |
| Analysis Requested by: | Sumner | Wilson | Date: | By 5/31/16 | 6/6/16 |
| Approved by: Jas | son Low | Office: | | Budget #: | 44716 |
| REASON REQUESTED: Suspected Violation | Court/Hearing Boar Rule(s) | | | Hazardous/Toxi | c Spill |
| Sample Collected by: | Bo Vongphachar | nh Date: | 6/6/16 | Time: (| 7:55pm |
| | PEOLIESTED | ANAI VSIS | PAMS analysis | | - |
| City/Location | Can# | | / time/ duration | Start vac | End Press |
| Reseda Station | 54597 | 6/5/16 / 0 | 00:00 / 24 hours | -30" | +11 |
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| Relinquished by | Receive | ed by | Firm/Agency | Date | Time |
| 191 | Cir X F | C | SCAQMD Lab | 6-6-16 | 10.16 |
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| Remarks: 1:3 scheduled samples | | | | | |